

Centuri

CENTURI FLYING MODEL ROCKET 1983 CATALOG



FEATURES FIVE EXCITING
NEW KITS! PLUS
NEW FIREBIRD
OUTFIT

CATALOG NO. 831

INCLUDES SPECIAL
BONUS COUPONS

for Merchandise
or Discounts on
your next order!

CATALOG
831/CM
\$1.00

GOOD NEWS FOR OREGON MODEL ROCKETRY HOBBYISTS

Effective November 1, 1981, the Oregon State Fire Marshal no longer requires permits to launch model rockets. Previous Oregon model rocketry regulations requiring permits to launch model rockets, Administrative Rules #837-12-250 through 837-12-270, have been repealed. Local jurisdictions may have ordinances in effect which do regulate model rockets within their jurisdiction. It is suggested that individuals check with the fire authority having jurisdiction in the area where they plan to launch, to be sure that local regulations do not require a permit.

For additional information contact:

Office of State Fire Marshal
Department of Commerce
103 Labor & Industries Building
Salem, OR 97310

MASSACHUSETTS AND RHODE ISLAND RESIDENTS

According to your state model rocketry regulations, you are required to obtain a permit from your local fire or safety authority in order to purchase and use model rocket engines.

As soon as you receive your permit, please send us a copy to keep on permanent file. All orders for engines must be placed in the name of the permit holder. For a copy of Massachusetts regulations write for: FPR Fire Prevention Regulation #15, State Book Store, State House, Room 116, Boston, Massachusetts 02133. (Include 30¢ for copy and postage). In Rhode Island, write: Rhode Island State Fire Marshal, 12 Humbert Street, North Providence, Rhode Island 02911 c/o William McVey, Chief of Technical Services.

NEW JERSEY RESIDENTS

In accordance with Safety Regulation No. 24 of the New Jersey Department of Labor and Industry, Centuri can sell engines only to holders of valid permits. These permits are issued to any adult who will assume full responsibility for the safe handling and use of model rocket engines including the purchase of them.

To obtain a permit first write to the State of New Jersey, Department of Labor and Industry, Bureau of Engineering and Safety, Box 709, Trenton, New Jersey, 08625, and request an application form for a model rocket engine permit. The fee for a permit is two dollars. DO NOT SEND THE PAYMENT until you return the completed application form to the Department of Labor and Industry. You will receive complete information on the procedures to follow when you receive the application form.

As soon as you receive your permit, please send us a copy to keep on permanent file.

If you are not yet an adult yourself, your parents, teachers, etc. can obtain permits and can purchase engines for you.

FOREIGN ORDERS

Due to restrictive International Air Mail Regulations, we are not able to ship our model rocket engines to any international or APO address.

GET THE MOST OUT OF YOUR HOBBY

10 REASONS TO JOIN
THE NATIONAL ASSOCIATION OF ROCKETRY

NAR MEMBERS RECEIVE ALL THIS:

- 1 Model Rocketeer Magazine**—12 monthly issues with the latest in rocketry!
- 2 Coupon Sheet**—Free products and samples from many aeromodeling manufacturers.
- 3 NAR Pink Book**—68 page rule book for over two dozen flying contests!
- 4 NAR Sporting License**—ID card with your registered number!
- 5 NAR Window Decal**—Official member decal proudly lets everyone know you are a member.

NAR MEMBERS ARE ENTITLED TO:

- 6 \$2,000,000 Liability Insurance**—The world's safest hobby!
- 7 Join NAR Clubs**—There are NAR clubs all over the country!
- 8 Attend NARAMS**—Spend a week at the NAR Annual Meet!
- 9 Set National and World Records**—Receive official recognition!
- 10 Member Services**—Free and low cost booklets, plans, patches and more!



National Association of Rocketry
Dept. C-83, 182 Madison Dr.
Elizabeth, PA 15037

APPLICATION

Membership Category—Check one only!

- JUNIOR \$12.00**
(Under 16 as of Jan. 1)
- LEADER \$15.00**
(Under 21 as of Jan. 1)
- SENIOR \$19.00**
(21 or over as of Jan. 1)

Renewing members deduct \$1.00 from the membership price.

Optional Membership Services—In addition to above fee.

- \$2,000,000 liability protection while flying model rockets. **\$4.00**
- FAI Stamp for team programs and international records. **\$2.00**

Amount Enclosed _____

Send to NAR, ad space donated by Centuri.

X

IMPORTANT INFORMATION

Please Read!

ATTENTION PARENTS, TEACHERS, AND ROCKETEERS

Please do not be alarmed by the placement of the label illustrated below on shipping cartons containing model rocket engines. When used as directed, Model Rocket Engines "ARE SAFE", and have produced an excellent Safety Record. This label is technically required by law. Please note that "Flammable Solid" label is required only for the transportation of the product and that model rocket engines are considered less of a hazard than model airplane fuel or aerosol paints.



DON'T MISS A MAILING

In order for you to receive all Centuri mailings be sure to order at least \$5.00 worth of merchandise every 6 months. This will assure that your name will be retained on our active mailing list.

SHIPPING INFORMATION

The following information is provided in accordance with the requirements set forth in Trade Regulation Rule 435, promulgated by the Federal Trade Commission, effective February 2, 1976.

We normally ship within 72 hours of receipt of your order. On occasion, a product may be temporarily out of stock, in which case we will notify you within 30 days that there will be a delay. Your order will then be filled as soon as possible, but in no event later than 90 days from receipt of your order.

A SPECIAL MESSAGE TO CENTURI CUSTOMERS

From time to time Centuri makes the names and addresses of its customers available to other companies who produce other products you may be interested in. This means that you may be receiving advertising and sales literature from these companies in your mail. If you do not wish your name and address to be used in this manner, please contact Centuri Customer Service Dept., Box 350, Penrose, CO 81240.

CALIFORNIA RESIDENTS

To receive model rocket engines by mail order in California, you must be aware of the following conditions and fulfill several simple requirements.

1. To receive 1/4A through C type engines you must be at least 14 years of age and have a "Statement of Age Certificate" on file with Centuri.
2. To receive D engines you must be at least 18 years of age and have a "Statement of Age Certificate" on file with Centuri.
3. If you are not old enough to receive the type of model rocket engines you wish, please have one of your parents send your order in for you. Remember they must also have a "Statement of Age Certificate" on file with Centuri.
4. You need to file a "Statement of Age Certificate" only once. Fill out and send in the certificate below now to assure the rapid handling of all your future orders.
5. To launch, an individual must secure authorization (either written or verbal) from the fire authority having jurisdiction over the area he plans to use as a launch site.
6. No additional consumer permit to purchase or use model rocket engines is required.

Copies of the State of California Model Rocket Regulations may be obtained upon request by writing to the following:

Chief Albert E. Hole
California State Fire Marshal
1215 "O" Street, Room A101
Sacramento, California 95814



CALIFORNIA STATEMENT OF AGE CERTIFICATE

Date _____

Name _____

Address _____

City _____ State _____ Zip _____

In order to receive model rocket engines in California, please check one of the following boxes and sign. Phone (____) _____

- (A) I am 14 years of age, but not yet 18. (B) I am 18 years of age or older.

Parent Signature _____

(Must be signed if box "A" is checked.)

Rocketeer Signature _____

Send to: Centuri, P.O. Box 350, Penrose, CO 81240

NOTE: Certificate need be filed only once.

Centuri

CENTURI

FLYING MODEL ROCKET

1983 CATALOG



Photo Credit - NASA

FEATURES FIVE EXCITING
NEW KITS! PLUS
NEW FIREBIRD
OUTFIT

CATALOG NO. 831

Welcome to Centuri Model Rocketry!

Centuri has a new look for 1983, with a new larger full-color catalog. We hope you'll enjoy looking through these colorful pages and that you'll enjoy flying Centuri model rockets.

This year we're introducing five exciting new kits and the spectacular new FIREBIRD Starter Kit on page 12. Of course, all of your favorite model rocket kits are back, along with the exciting Power-Pulse™ Launch Controller which we introduced in 1982. This popular launch controller is truly a revolution in launch systems. Be sure to add one to your ground support equipment today!

All new 1983 rocket kits are indicated by red type near their names. Skill levels are easy to recognize too; just look for the rocket name near the bottom of the page in the appropriate skill level color.

Centuri goes into 1983 with a new look and a new dedication to bringing you the finest model rocketry products in the world. Welcome! - to our corner of the galaxy!

All prices in this catalog are subject to change without notice.

USING YOUR CENTURI CATALOG

Each kit or item listed in the catalog has certain information with it that will be helpful to you in using the item. Each kit listing contains the following information.

1. Kit name
2. Skill Level—All kits in this catalog are grouped by Skill Level.
3. Special features of the kit.
4. Specifications on length, diameter, weight and wing span where indicated.
5. Engine types recommended for use in the kit.
6. Product number which should always be used when ordering.
7. Price of kit (or see price list).

IMPORTANT

Most model rocket kits are constructed of light-weight hobby materials such as balsa wood, paper tubing and plastic. Unless otherwise stated, all the model rocketry kits in this catalog are hobby kits requiring assembly. Launch system, engines, launch supplies, glue, batteries, paint, tools and finishing materials are not included. Recommended for ages 10 to adult. Adult supervision is suggested for those under 12 years of age when flying model rockets.

SKILL LEVELS

The model rocket kits in this catalog require assembly unless otherwise stated. The degree of construction and operation challenge varies from kit to kit, so all Centuri model rockets are rated by Skill Level to make it easy to choose the right project. In most cases, it is recommended that rocketeers not skip skill levels. Unless you are an extremely experienced modeler, you should complete a Skill Level One kit before building a Skill Level Two....and you should build a Skill Level Two before attempting a Skill Level Three....and so on.

Skill Level One—Very Simple

Recommended for beginners

Skill Level Two—Fairly Easy

Recommended for individuals with model building experience.

Skill Level Three—Average Challenge

Recommended for the experienced model builder.

Skill Level Four—Very Challenging

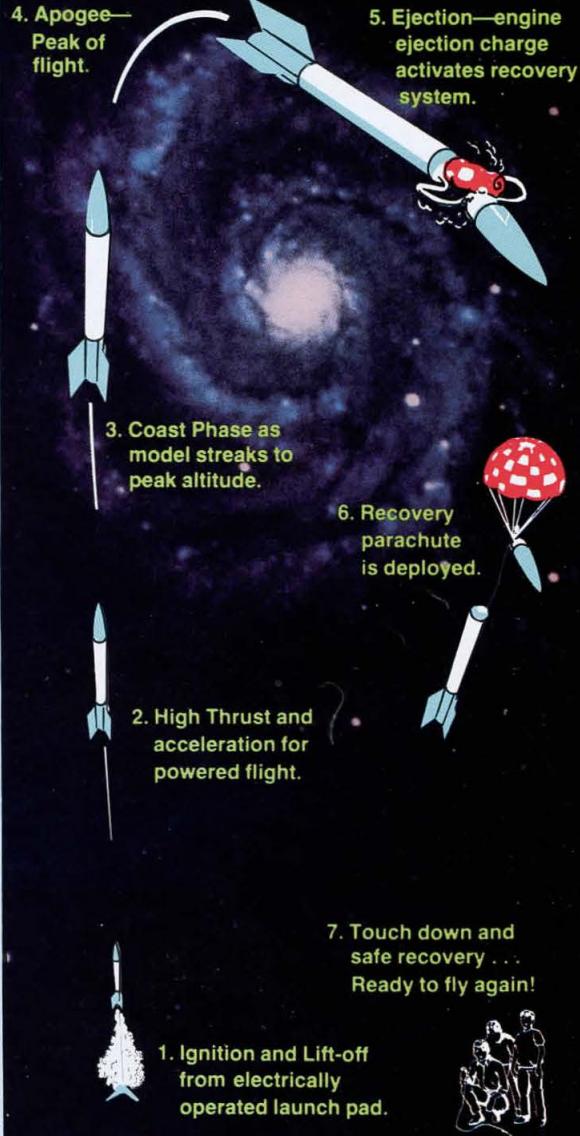
Recommended for the advanced model builder.

Skill Level Five—Extremely Challenging

Recommended for the expert model builder.



MODEL ROCKET FLIGHT SEQUENCE



Safety Code NAR/HIAA

1. CONSTRUCTION — My model rockets will be made of lightweight materials such as paper, wood, plastic and rubber, without any metal as structural parts.
2. ENGINES — I will use only pre-loaded factory made NAR safety certified model rocket engines in the manner recommended by the manufacturer. I will not change in any way nor attempt to reload these engines.
3. RECOVERY — I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again.
4. WEIGHT LIMITS — My model rocket will weigh no more than 453 grams (16 ozs.) at liftoff, and the engines will contain no more than 113 grams (4 ozs.) of propellant.
5. STABILITY — I will check the stability of my model rockets before their first flight, except when launching models of already proven stability.
6. LAUNCHING SYSTEM — The system I use to launch my model rockets must be remotely controlled and electrically operated, and will contain a switch that will return to "off" when released. I will remain at least 15 feet away from any rocket that is being launched.
7. LAUNCH SAFETY — I will not let anyone approach a model rocket on a launcher until I have made sure that either the safety interlock key has been removed or the battery has been disconnected from my launcher.
8. FLYING CONDITIONS — I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft, or under any conditions which might be dangerous to people or property.
9. LAUNCH AREA — My model rockets will always be launched from a cleared area, free of any easy to burn materials, and I will only use flame resistant recovery wadding in my rockets.
10. JET DEFLECTOR — My launcher will have a jet deflector device to prevent the engine exhaust from hitting the ground directly.
11. LAUNCH ROD — To prevent accidental eye injury I will always place the launcher so the end of the rod is above eye level or cap the end of the rod with my hand when approaching it. I will never place my head or body over the launching rod. When my launcher is not in use I will always store it so that the launch rod is not in an upright position.
12. POWER LINES — I will never attempt to recover my rocket from a power line or other dangerous place.
13. LAUNCH TARGETS & ANGLES — I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive warhead nor a payload that is intended to be flammable. My launching device will always be pointed within 30 degrees of vertical.
14. PRE-LAUNCH TEST — When conducting research activities with unproven designs or methods, I will when possible, determine their reliability through pre-launch tests. I will conduct launches of unproven designs in complete isolation from persons not participating in the actual launching.

EAGLE POWER

Model Rocketry Outfit

Skill Level 1—Recommended for Beginners

Eagle Power is our most popular outfit and contains everything you'll need to get off to a flying start in model rocketry! Includes the Screaming Eagle model rocket kit, deluxe Powr-Pad launcher, 2 powerful Enerjet model rocket engines, igniters, wadding, glue and special Mini-Manual of Model Rocketry.

Screaming Eagle model rocket requires no painting! All parts are pre-colored for fast assembly. The Screaming Eagle features a molded plastic fin unit and nose cone, parachute recovery and special stick-on kit decals! Capable of flights over 1,000 feet, the Screaming Eagle is the ideal beginner's rocket and a reliable model for the experienced rocketeer.

The deluxe Powr-Pad is designed to provide lasting service over many years. Using a standard 6 volt lantern battery for power the Powr-Pad includes a special tilt-tilter assembly to allow you to compensate for slight winds, steel blast deflector, handy carrying handle, 1/8" x 36" two-piece launch rod plus launch controller, launch cable and micro-clips.

Engines: A8-3 (First Flight), B6-6, B8-5, C6-7

Ship Wt. 3 lbs.

EAGLE POWER will start you off right in the exciting hobby of model rocketry!

Prod. No. 5404...Only \$17.95

Battery not included.



BIG SHOT

MODEL ROCKETRY OUTFIT

Skill Level 1—Recommended for Beginners

Our biggest and best starter kit, the **BIG SHOT** features both the Screaming Eagle and Excalibur model rocket kits, along with the deluxe Powr-Pad launcher.

The **Screaming Eagle** is easy to build yet impressive in the air. All parts are pre-colored so no painting is necessary. Plastic nose cone and fin unit make construction and flying easy. The **Excalibur** is the next step for the beginning rocketeer. The **Excalibur** features plastic nose cone and adapter unit, die-cut fibre fins, kit decal and 12 inch parachute recovery.

The deluxe **Powr-Pad** launcher fits on top of any standard 6 volt lantern battery. Special features include special tilt-tilter assembly to compensate for wind, steel blast deflector, handy carrying handle, 1/8" x 36" two-piece launch rod plus hand-held launch controller featuring safety key, arming light and launch button. Big shot gets you into the air in a big way!

Engines:

Screaming Eagle: A8-3 (First Flight) B6-6, B8-5, C6-7.

Excalibur: A8-3 (First Flight) B6-4, B8-5, C6-5

Prod. No. 5406...\$26.95 **Ship Wt. 3 lbs.**

Screaming Eagle:

Excalibur:

Photo Credit - NASA

BIG SHOT GETS YOU INTO THE AIR IN A BIG WAY!

Battery and finishing supplies not included.



THUNDER HAWK Outfit-Skill Level 1

Recommended for Beginners

**BONUS! Includes 2 Extra
Engines FREE! Total of 5 Engines.**

Get going in model rocketry with this starter set featuring one of Centuri's most popular rockets—the Thunderhawk. This easy-to-build kit features a plastic nose cone and die-cut balsa fins. Parachute is included for recovery. The launch system fits over a standard 6 or 12 volt lantern battery and features round blast deflector plate, and 1/8" x 36" long 2 piece launch rod. Futuristic hand-held controller features arming light, safety key and ignition button plus launch cable with micro-clips. Also included are three Enerjet model rocket engines, Sure-Shot II igniters, recovery wadding and complete instructions. Everything you need to get started today. (Requires 6 or 12 volt lantern battery, glue and paint—not included.) Engines: 1/2A6-2, A8-3, B6-4, B8-5, C6-7.



NASA Space Shuttle Columbia Outfit – Skill Level 1

Recommended for Beginners.

Start your own Space Program with Centuri's Space Shuttle Columbia Outfit. This easy-to-build model is a near-scale version of NASA's Columbia Orbiter, which was the first space shuttle to fly in space on April 12, 1981. Picture yourself ready to launch your fully prepped COLUMBIA: count-down...ignition...lift-off...roaring skyward...ejection! The big 16" chute brings her back safely in realistic glide position, ready to be launched again.

Complete starter set includes everything for your first three thrilling flights (except battery and finishing supplies). The COLUMBIA, at nearly one foot long, is a great display model between missions! Also included is the deluxe Powr-Pad launcher and three powerful Enerjet model rocket engines with igniters and recovery wadding. Engines: B6-4 (First Flight), B8-5, C6-5.

Prod. No. 5206...\$19.95

Battery, paint and glue are not included.

Ship. Wt.: 1 lb.

VIKING EXPLORER Starter Kit—Skill Level 1

Recommended for Beginners

**Model Rocketry's Lowest Priced
Starter Kit**

Here's a low-cost way to get started in model rocketry with our popular Viking model rocket and Lightning Bolt launcher!

Viking Model Rocket features parachute recovery, die-cut fibre fins, plastic nose cone, kit decal and spectacular flights over 600 feet. No painting required.

Lightning Bolt Launcher fits any standard 6 or 12 volt lantern battery (not included) and includes launch pad with blast deflector plate and 1/8" x 36" two-piece launch rod. Futuristic hand-held launch controller features arming light, safety key and ignition button, plus launch cable with micro-clips.

Includes two powerful Enerjet model rocket engines plus igniters and parachute recovery wadding for your first flights.

Engines: 1/2A6-2, A8-5 (First Flight), B6-6, C6-7.

Ship. Wt.: 1 lb.

Prod. No. 5204...\$10.95

Requires 6 or 12 volt lantern battery and glue—not included.



Ship. Wt.: 1 lb.

Prod. No. 5208...\$14.95



NASA Space Shuttle Columbia Outfit – Skill Level 1

Recommended for Beginners.

Start your own Space Program with Centuri's Space Shuttle Columbia Outfit. This easy-to-build model is a near-scale version of NASA's Columbia Orbiter, which was the first space shuttle to fly in space on April 12, 1981. Picture yourself ready to launch your fully prepped COLUMBIA: count-down...ignition...lift-off...roaring skyward...ejection! The big 16" chute brings her back safely in realistic glide position, ready to be launched again.

Complete starter set includes everything for your first three thrilling flights (except battery and finishing supplies). The COLUMBIA, at nearly one foot long, is a great display model between missions! Also included is the deluxe Powr-Pad launcher and three powerful Enerjet model rocket engines with igniters and recovery wadding. Engines: B6-4 (First Flight), B8-5, C6-5.

Prod. No. 5206...\$19.95

Battery, paint and glue are not included.

Ship. Wt.: 1 lb.



Photo Credit - NASA



Photo Credit - NASA

NEW

SKILL LEVEL 1...SKILL LEVEL 2...SKILL LEVEL 3...SKILL LEVEL 4...SKILL LEVEL 5

SCAN

SABRE Ideal first model rocket kit, this easy-to-build bird streaks up over 1500' with a C engine. Streamer recovery returns it safely to the ground close to launch pad. Two-color kit decal makes it easy to finish. **Specs:** Length: 12.375" (31.4 cm) Dia.: .736" (18.7 mm) Weight: 565 ozs. (16 g). **Rec. Engines:** 1/2A6-4, A8-5 (First Flight), B6-4, B6-6, B8-5, C6-5, C6-7 **Ship. Wt. 6 oz.** **Prod. No. 5360...\$3.00**

VIKING Easy to build and fun to fly. A great beginner model that requires no painting. **Specs:** Length: 12" (30.5 cm) **Prod. No. 5440...\$2.95** Dia.: .76 (1.9 cm) Net Wt.: 8 oz. (22.7 g). **Rec. Engines:** 1/2A6-2, A8-5, B6-6, C6-7 **Ship. Wt. 3 oz.**

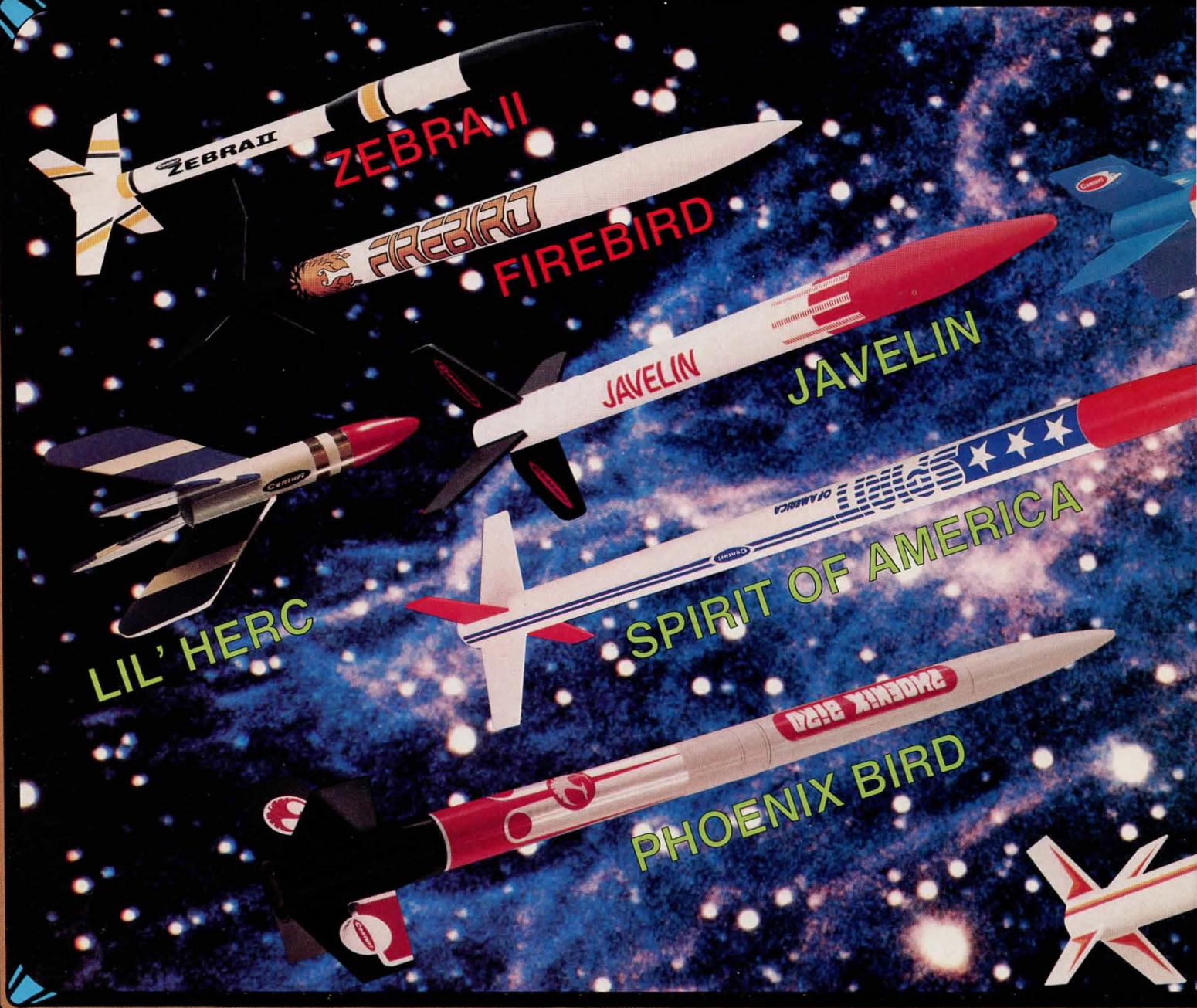
THUNDERHAWK Over 20 inches long, this great performer turns in flights over 1,000 feet. **Specs:** Length: 21.5" (54.6 cm) Dia.: .76 in. (1.9 cm) Net Wt.: 1 oz (28 g). **Prod. No. 5338...\$4.00** **Rec. Engines:** 1/2A6-2, A8-3, B6-4, B8-5, C6-7 **Ship. Wt. 3 oz.**

ASTRO-1 This clean design is an excellent beginner rocket. Quick to assemble and fly. **Specs:** Length: 16 in. (40.6 cm) Dia.: 1.04 in. (2.6 cm) Net Wt.: 1.1 oz (31.2 g) **Prod. No. 5047...\$7.00** **Rec. Engines:** 1/2A6-2, A8-3, B6-4, B8-5, C6-5 **Ship. Wt. 4 oz.**

RED-EYE The Red-Eye photo reconnaissance satellite keeps watch over military build-up. Easy-to-build kit. Unique recovery system. **Specs:** Body Length: 4.0 in. (10.2 cm) Full Length: 8.75 in. (22.2 cm) Body Dia.: .76 in. (1.9 cm) Net Wt.: .3 oz (8.5 g). **Prod. No. 5346...\$2.95** **Rec. Engines:** 1/2A6-2 **Ship. Wt. 2 oz.**

LIL' IVAN Beginner kit with a Russian decor. Flights over 600 feet with a C engine. **Specs:** Length: 8.75 in. (22.2 cm) **Prod. No. 5353...\$4.50** Dia.: 1.63 in. (6.52 cm) Net. Wt.: 1.35 oz (38.3 g) **Rec. Engines:** A8-5, B6-6, C6-7 **Ship. Wt. 4 oz.**

NASA Space Shuttle Columbia You can fly Centuri's model of this famous space vehicle today. Build the Columbia quickly and easily with white glue and plastic cement. Includes a tech data sheet on the real Columbia. Engine nozzle unit removes for flight. **Specs:** Length: 11.3 in. (28.7 cm) Dia.: 1.64 in (4.2 cm) Net. Wt.: 2.45 oz. (68.6 g) **Prod. No. 5343...\$7.75** **Rec. Engines:** B6-4 (First Flight), B8-5, C6-5 **Ship. Wt. 7 oz.**



SCAN

NEW

SKILL LEVEL 1...SKILL LEVEL 2...SKILL LEVEL 3...SKILL LEVEL 4...SKILL LEVEL 5

ZEBRA II PAYLOADER Fly your payload to incredible altitudes with the Zebra II. Large payload section for small biological or insect payloads. **Specs.:** Length: 15.5" (39.4 cm). Dia.: .736" (18.7 mm). Payload Section Dia.: .976" (24.8 mm). Weight: .81 oz. (23 g). **Rec. Engines:** A8-3 (First Flight), B6-4, B8-5, C6-5. **Ship. Wt. 10 oz.** **Prod. No. 5361...\$5.25**



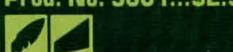
FIREBIRD This high-performance sport bird features bold graphics on its 2-color kit decal. Easy-to-build and fun to fly. Capable of flights over 1,000 feet with C engine. Ideal beginner's rocket. **Specs.:** Length: 16.3 in. (41.4 cm) Dia... .976 in. (24.8 mm) Weight: .94 oz. (26.5 g) **Rec. Engines:** A8-3 (First Flight), B6-4, B8-5, C6-3, C6-5. **Ship. Wt. 10 oz.** **Prod. No. 5359...\$4.25**



JAVELIN Easy-to-assemble, the Javelin is a high-flying beginner's rocket. Flights over 800 feet. **Specs.:** Length: 12.5 in. (31.8 cm) Dia.: .76 in. (1.9 cm) Net Wt.: .6 oz (17 g). **Rec. Engines:** 1/2A6-4, A8-5, B6-6, C6-7. **Ship. Wt. 2 oz.** **Prod. No. 5091...\$5.00**



LIL' HERC Learn about basic rocket flying principles with this easy-to-build rocket that ejects its engine after apogee and tumbles back for another flight. **Specs.:** Length: 5.5 in. (14 cm) Dia.: .76 in. (1.9 cm) Net Wt.: .3 oz (8.5 g) **Rec. Engines:** 1/2A6-2, 1/2A6-4. **Ship. Wt. 2 oz.** **Prod. No. 5001...\$2.95**



SPIRIT OF AMERICA This long bird is easy-to-build and fun to fly. A great first rocketry project or one to add to your fleet. **Specs.:** Length: 22.7 in. (57.7 cm) Dia.: .98 in. (2.5 cm) Net Wt.: 1.4 oz (39.7 g). **Rec. Engines:** 1/2A6-2, A8-3, B6-4, B8-5, C6-5. **Ship. Wt. 4 oz.** **Prod. No. 5344...\$4.95**



PHOENIX BIRD Big and spectacular on the launch pad and in the air, the Phoenix Bird is easy-to-assemble. Everything about the Phoenix Bird is BIG! **Specs.:** Length: 26.3 in. (66.8 cm) Dia.: 1.34 in. (3.4 cm) Net Wt.: 3.4 oz (96.4 g). **Rec. Engines:** B6-4, B8-5, C6-5. **Ship. Wt. 10 oz.** **Prod. No. 5407...\$9.95**



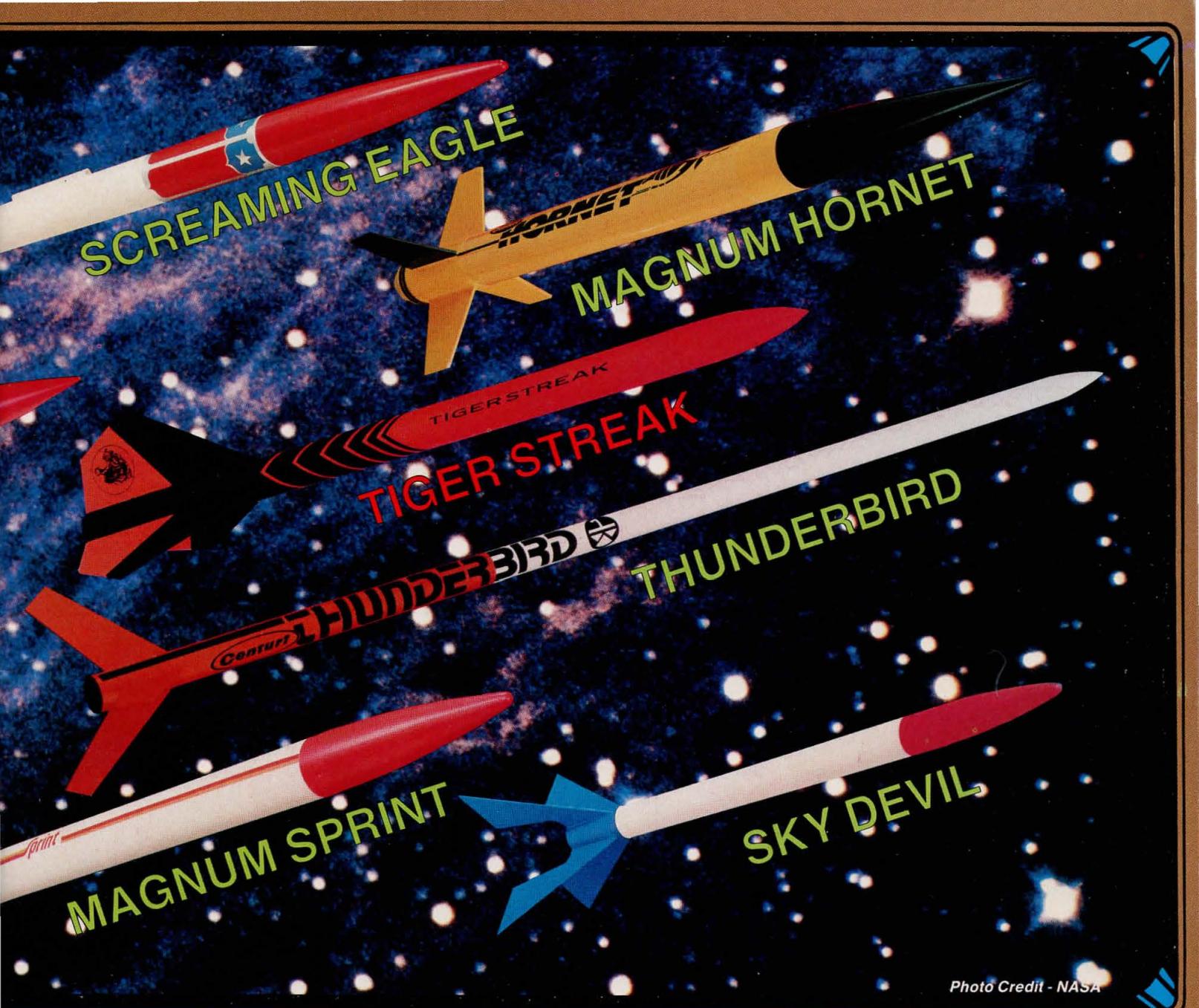


Photo Credit - NASA

SKILL LEVEL 1...SKILL LEVEL 2...SKILL LEVEL 3...SKILL LEVEL 4...SKILL LEVEL 5

NEW

SCAN

SCREAMING EAGLE Our easiest-to-build and most popular rocket, the Screaming Eagle requires no painting! **Prod. No. 5173...\$4.75**
Specs: Length: 16.4 in. (41.7 cm) Dia.: .91 in. (2.3 cm) Net Wt.: 1.6 oz (45.4 g) **Rec. Engines:** A8-3, B6-4, B8-5, C6-7
Ship. Wt. 5 oz.



MAGNUM HORNET Watch this sleek bird race off the pad under Magnum D power! Capable of flights over 1200 feet! Includes convertible mount to fly with regular engines. **Specs:** Length: 19.8 in. (50.3 cm) Dia.: 1.325 in. (3.4 cm) Net Wt.: 1.76 oz (49.28 g) **Rec. Engines:** D12-7 With convertible mount: B6-4, B8-5, C6-5 **Ship. Wt. 5 oz.** **Prod. No. 5341...\$5.75**



TIGER STREAK Dramatic styling makes this bird a real winner in the air and on display. Capable of flights over 2,700 feet on C engines. Reliable streamer recovery. **Specs.:** Length: 18.25" (46.7 cm) Dia.: .976" (24.8 mm) Weight: 1.34 oz. (38 g) **Rec. Engines:** Booster: A8-0 (First Flight), B6-0, C6-0. Upper Stage: 1/2A6-4, A8-5 (First Flight), B6-6, C6-7. Single Stage: 1/2A6-2, A8-3 (First Flight), B6-4, B8-5, C6-5 **Ship. Wt. 10 oz.** **Prod. No. 5357...\$5.00**



THUNDERBIRD A great demo bird the Thunderbird stands over 41 inches tall. Flights over 500 feet. **Specs:** **Prod. No. 5339...\$8.00**
Length: 41.75 in. (106 cm) **Dia.:** 1.0 in. (2.5 cm) **Net Wt.:** 2.7 oz (77 g) **Rec. Engines:** A8-3, B6-4, B8-5, C6-5
Ship. Wt. 8 oz.



MAGNUM SPRINT Designed for high performance with Magnum D engines. Sprint is a great display model too. **Specs.:** **Prod. No. 5356...\$5.25**
Specs: Length: 23.25 in. (59.0 cm) Dia.: 1.325 in. (33.6 cm) Net Wt.: 1.95 oz. (42 g) **Rec. Engines:** D12-7
Ship. Wt. 5 oz.



SKY DEVIL Select from 8 different fin patterns to customize this high-performer. Flights over 1,800 feet! **Specs.:** **Prod. No. 5040...\$3.50**
Length: 12 to 14 in. (30.5 to 35.6 cm) **Dia.:** .76 in. (1.9 cm) **Net Wt.:** .8 oz (22.7 g) **Rec. Engines:** 1/2A6-4, A8-5, B6-6, C6-7 **Ship. Wt. 3 oz.** **Prod. No. 5040...\$3.50**





SATELLITE
KILLER



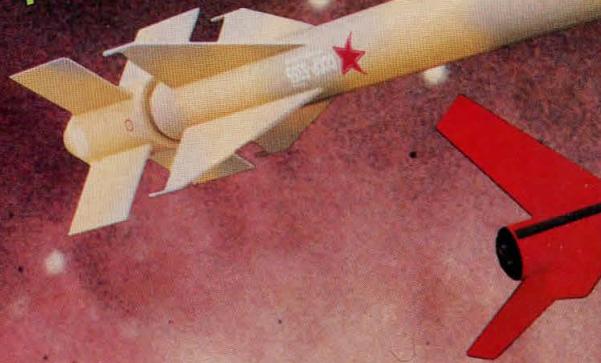
PYTHON FIGHTER



SPACEMASTER



SR-71 BLACKBIRD



BULL DOG

SCAN

NEW

SKILL LEVEL 1...SKILL LEVEL 2...SKILL LEVEL 3...SKILL LEVEL 4...SKILL LEVEL 5

SATELLITE KILLER

This futuristic defense satellite is designed to identify and destroy enemy satellites, using special electronic and laser equipment. Kit features unique rear-ejection recovery system. **Specs:** Height 6.5 in. (16.5 cm) Full Dia.: 12.25 in. (31.1 cm) Net Wt.: 3.5 oz (99.2 g) **Rec. Engines:** C6-3 **Ship. Wt.** 10 oz.

Prod. No. 5345...\$9.00



Prod. No. 5349
...\$13.95

SR-71 BLACKBIRD

The SR-71 is the U.S. Air Force's long-range advanced strategic reconnaissance aircraft, capable of flying above 80,000 feet at three times the speed of sound. Includes D-convertible engine mount. **Specs:** Length: 27.5 in. (69.8 cm) Dia.: 1.64 in. (4.2 cm) Net Wt.: 6.6 oz (187 g) **Rec. Engines:** C6-3, D12-5 **Ship. Wt.** 1lb.3oz.

Prod. No. 5349
...\$13.95



Prod. No. 5349
...\$13.95

PYTHON FIGHTER

Futuristic space fighter design, this short-range support craft is based on large space carriers. Quad-mounted laser cannons and forcefield defense. **Specs:** Length: 14.875 in. (37.8 cm) Dia.: .976 in. (24.8 mm) Weight: 1.25 oz. (35.4 g) **Rec. Engines:** 1/2A6-2, A8-3 (First Flight), B6-4, B8-5, C6-5 **Ship. Wt.** 12 oz.

Prod. No. 5358...\$5.25



Prod. No. 5358...\$5.25

SPACEMASTER

The workhorse of space transports of the near future. Transports up to 100 men and equipment in excess of 4 million miles without refueling. **Specs:** Length: 22.25 in. (56.5 cm) Dia.: .976 in. (2.5 cm) Net. Wt. 1.4 oz. (40 g) **Rec. Engines:** 1/2A6-2, A8-3, B6-4, B8-5, C6-5, C6-7 **Ship. Wt.** 4 oz.

Prod. No. 5348...\$6.75



Prod. No. 5348...\$6.75

BULL DOG

Near-scale version of the Marine Corps AGM-83 A missile. Beautifully detailed and spectacular in the air. Great display model. **Specs:** Length: 20.75 in. (52.7 cm) Dia.: 2.217 in. (56.4 cm) Net Wt.: 3.78 oz (107 g) **Rec. Engines:** B6-4, B8-5, C6-5 **Ship. Wt.** 11 oz.

Prod. No. 5354...\$8.95



Prod. No. 5354...\$8.95

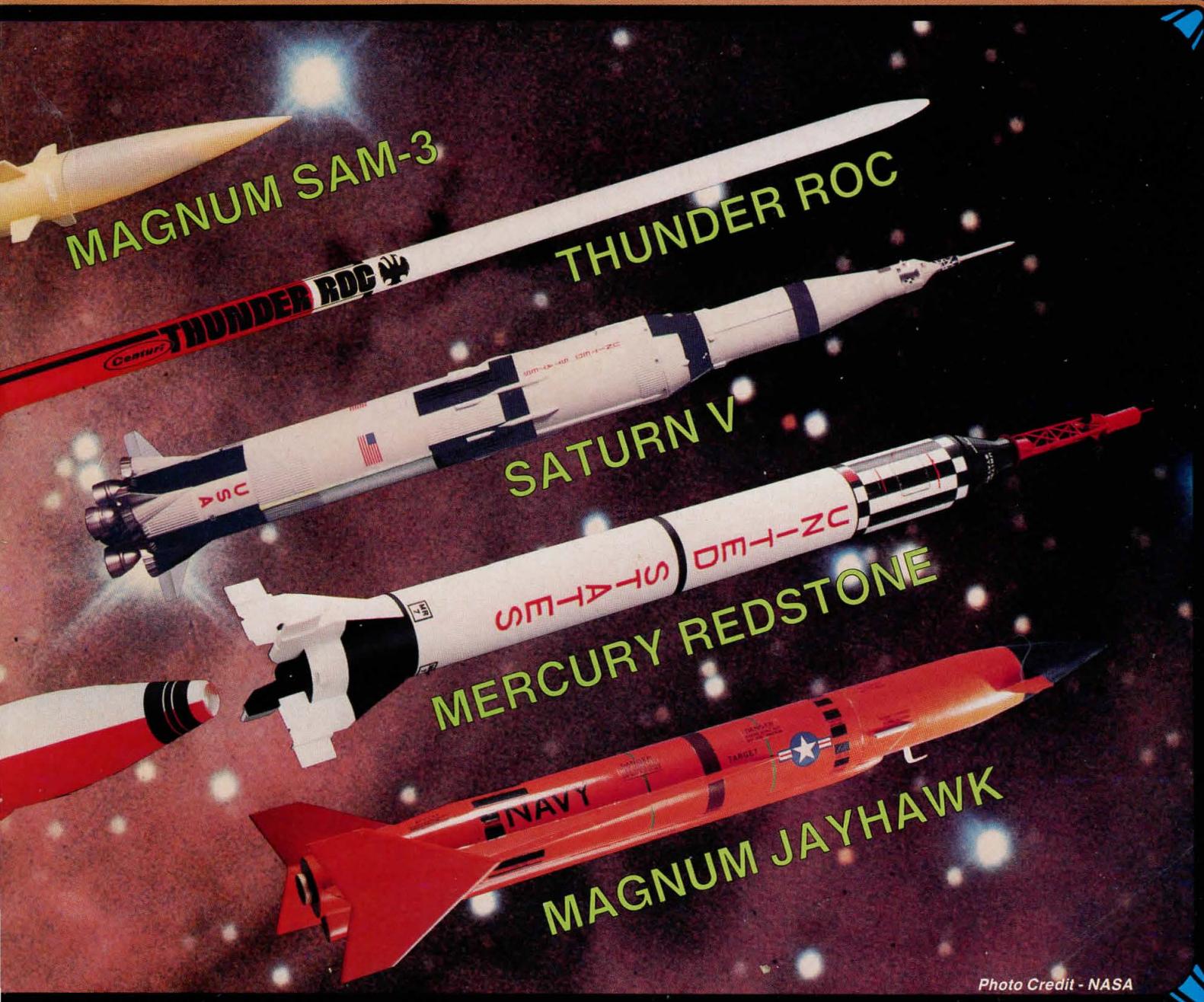


Photo Credit - NASA

SKILL LEVEL 1...SKILL LEVEL 2...SKILL LEVEL 3...SKILL LEVEL 4...SKILL LEVEL 5

NEW

SCAN

MAGNUM SAM-3 Magnum-D powered version of the Russian SAM-3 surface-to-surface missile. Two-stage performance with a Magnum D engine in the first stage and a regular Enerjet engine in the upper stage. **Specs:** Length: 26.875 in. (68.3 cm) Dia.: 1.637 in. (41.6 mm) Net Wt.: 2.78 oz (78.8 g) **Rec. Engines:** Single Stage: A8-3, B8-5, C6-5. Upper Stage: A8-5, B4-6, B8-5, C6-7. Booster: D12-0. **Ship. Wt.** 8 oz.

Prod. No. 5355...\$7.50

THUNDER ROC Longest kit in the Centuri line, the Thunder-Roc lumbers off the pad under either Super-C or Magnum D power. Convertible engine mount included. **Specs:** Length: 61.5 in. (156.2 cm) Dia.: 1.64 in. (4.2 cm) Net. Wt.: 6.6 oz (187 g) **Rec. Engines:** C6-3, D 12-5. **Ship. Wt.** 1 lb. 3 oz.

Prod. No. 5340...\$11.00

SATURN V Over the past 12 years, the Centuri Saturn V has been acknowledged as model rocketry's finest scale Saturn. Over 43 inches tall; beautifully detailed right down to the vacuum-formed plastic body wrappers. Includes removable F-1 engine bell unit, molded plastic Apollo capsule and tower and three engine cluster power. **Specs:** Length: 43.6 in. (110.7 cm) Dia.: 3.96 in. (10.1 cm) Net Wt.: 9.2 oz (260.8 g) **Rec. Engines:** (Requires three per flight) C6-3. **Ship. Wt.** 3 lbs. 5 oz.

Prod. No. 5142...\$39.95

MERCURY REDSTONE This beautiful 1/36th scale model of Freedom 7, America's first manned spaceflight, will make a fine addition to your rocket collection. It features a molded plastic Mercury capsule, escape tower, and lifts slowly off the pad—just like the real rocket. **Specs:** Length: 29 in. (73.7 cm) Dia.: 2.04 in. (5.2 cm) Net Wt.: 3.7 oz (104.9 g) **Rec. Engines:** C6-3 **Ship. Wt.** 16 oz.

Prod. No. 5131...\$13.95

MAGNUM JAYHAWK Spectacular 1/5 scale model of the Navy's AQM-37A target drone. Over 30 inches long and fantastically detailed, it is a challenge for all modelers. Designed for the advanced modeler, this is a kit you'll be proud to display and fly. **Specs:** Length: 30.4 in. (77.22 cm) Dia.: 2.6 in. (6.6 cm) Net Wt.: 9.21 oz (261 g) **Rec. Engines:** D12-3. **Ship. Wt.** 1 lb. 11 oz.

Prod. No. 5342...\$17.95



Model Rocket Engines

All Centuri Enerjet and Magnum D engines are manufactured by automatic equipment to exacting standards. Designed for one-time use; not reloadable or reusable. The NAR emblem on every engine means they are regularly tested and meet all safety standards. We test 3 out of every 100 engines. We strive to provide the highest quality engines available.

IGNITION TO EJECTION

Battery-operated launch system heats igniter in engine nozzle—propellant starts almost instantly.



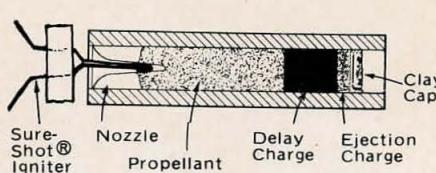
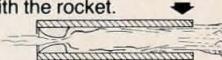
Propellant consumed to develop maximum thrust. Reaction principle causes lift-off & acceleration to coast phase.



Rocket coasts upward after propellant expended. Delay charge continues until rocket reaches peak altitude.



At end of delay, the ejection charge is ignited and gases activate the recovery system. Normally the expended engine returns with the rocket.



ENGINE SPECS



STANDARD SIZE ENGINES—Centuri's reliable engine designed to fit all regular model rockets. Size is 2.75" long (6.99 cm) and 0.690" diam. (1.75 cm). **Ship. Wt.: 4 oz.**

Prod. Number	Type	Prices 3 For	Total Impulse N-sec.	Average Thrust Newtons	Thrust Duration Seconds	Delay Time 15% Seconds	Engine Weight Ounces	Recom. Max. Lift-Off Wt. (with engines) Ounces	Single Stage	Booster	Label Color
5550	1/2A6-2	\$2.85	1.25	6.23	.20	2	.53	2.5	X		Green
5552	1/2A6-4	\$2.85	1.25	6.23	.20	4	.54	1.5	X		Purple
5558	A8-0	\$3.00	2.50	7.81	.32	0	.51	4.5		X	Red
5560	A8-3	\$3.00	2.50	7.81	.32	3	.57	5.0	X		Green
5562	A8-5	\$3.00	2.50	7.81	.32	5	.62	2.5	X		Purple
5570	B6-0	\$3.00	5.00	6.00	.83	0	.58	5.0		X	Red
5572	B6-4	\$3.00	5.00	6.00	.83	4	.78	5.0	X		Green
5574	B6-6	\$3.00	5.00	6.00	.83	6	.71	3.0	X		Purple
5548	B8-5	\$3.15	5.00	8.33	.60	5	.68	5.0	X		Green
5582	C6-0	\$3.25	10.00	5.86	1.70	0	.80	6.0		X	Red
5584	C6-3	\$3.25	10.00	5.86	1.70	3	.88	6.0	X		Green
5586	C6-5	\$3.25	10.00	5.86	1.70	5	.91	5.0	X		Green
5588	C6-7	\$3.25	10.00	5.86	1.70	7	.95	3.5	X		Purple



Powerful engines recommended for experienced rocketeers. Size is 2.75" long (6.99cm) and 0.945" diam. (2.4cm). **Ship Wt. 6.5 oz.**

5596	D12-0	\$4.95	20.00	11.76	1.70	0	1.44	14.0	X	Red
5597	D12-3	\$4.95	20.00	11.76	1.70	3	1.49	14.0	X	Green
5598	D12-5	\$4.95	20.00	11.76	1.70	5	1.52	10.0	X	Green
5599	D12-7	\$4.95	20.00	11.76	1.70	7	1.55	8.0	X	Purple

Enerjet and Sure-Shot are registered trademarks of Centuri Engineering Co., Inc.

Flight Packs

Bargain-priced packs of all supplies needed for 12 exciting flights. Each includes 12 Enerjet engines, 12 Sure-Shot II igniters and instructions at about a 15% savings. Includes a package of wadding at no extra cost!

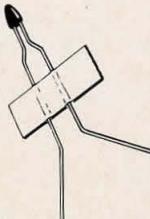


Igniters Sure-Shot II®

These high-performance igniters will give reliable ignition every time. Features easy installation and four element construction. Available in 6 or 12 pack. **Ship Wt. 1 oz.**

6 Pack: Prod. No. 5690 . . . \$1.25

12 Pack: Prod. No. 5692 . . . \$2.00



Launch Rods: 2 piece 1/8" x 36" rod. Use for your own home-built launch stand or as a replacement for Powr-Pad or Power Tower. Includes safety cap and extra key. **Ship Wt. 6 oz.**

Prod. No. 5804 \$2.25

Extra-strong 2-piece launch rod 3/16" in diameter. Compatible with Power Tower. Designed for heavy duty launchings such as Saturn V and Magnum D kits. Includes safety cap and extra key. **Ship Wt. 12 oz.**

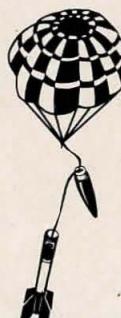
Prod. No. 5805 \$3.50

Micro-Clips: Replacement for Centuri systems or use on your own system. **Ship Wt. 1 oz.**

Prod. No. 5812 \$1.25

Recovery Supplies

Parachute Kits: Parachute recovery is a high point of any rocket flight. After the "coasting phase" you'll hear the chute assembly "pop" free of the rocket followed by a crisp "snap" as the canopy fills with air and your rocket starts its descent. Each chute kit contains a tough 2-color plastic canopy, heavy duty shroud line, tape discs and instructions for assembly. Check net weight of your rocket to determine parachute size. **Ship Wt. 2 oz.**



Description	Prod. No.	Dia.	Max. Net Wt.	Price Ea.
CP-12	5854	12"	2 oz.	\$1.30
CP-16	5860	16"	4 oz.	\$1.40
CP-20	5866	20"	6 oz.	\$1.50
CP-24	5872	24"	8 oz.	\$1.60

Streamers: Bright orange flame-resistant crepe paper streamers. In 7-1/2 foot lengths, enough for two to eight streamers. Specify size when ordering.

1" wide. Net Wt. .092 oz. Ship Wt. 1 oz.
Prod. No. 2341 6/\$2.25

2" wide. Net Wt. .184 oz. Ship Wt. 1 oz.
Prod. No. 2343 6/\$2.50

Shroud Line: Build reliable, durable custom parachutes with this strong, hard surface shroud line cord. Comes in 70 yard spools. **Ship Wt. 5 oz.**
Prod. No. 2340 \$1.30

Tape Strips: For top strength, low bulk and low weight fasten shroud lines with these 1/4" x 3/4" tape strips in sheets of 12 strips. **Ship Wt. 1 oz.**
Prod. No. 38412 72/\$1.50

Wadding: Provides protection from hot ejection gases for parachutes and streamers. Each package contains approximately 75 4-1/2 squares — enough wadding for up to 25 flights. Instructions for installation are included in each package. **Ship. Wt. 6 oz.**
Prod. No. 5846 \$1.50

Power-Pulse™ Launch Controller



This revolutionary new launch controller utilizes the new 6 volt Polaroid® Pola-Pulse™ battery. This super-thin battery eliminates the need for expensive and hard to find lantern batteries and gives consistent ignition for more than 150 launchings. The Power-Pulse controller is molded out of rugged styrene plastic and features safety key, continuity check light and ignition button, 15 feet of launch cable and pre-soldered micro-clip. Use with Centuri Sure-Shot II igniters. The launch controller of the future—be sure it's in your range box today!

Length: 4-7/8"
Width: 3-7/8"
Depth: 15/16"
to 1-3/16"

(Battery not included)

Ship Wt. 12 oz.

Prod. No. 5602...\$9.95

Polaroid® Pola-Pulse™ Battery

Revolutionary battery is only 3.7" high by 3" wide by 0.18" thick, yet packs the power for more than 150 launchings. Use with No. 5602 Power-Pulse Controller and Sure-Shot II igniters. 6 volt power.

Ship Wt. 2 oz.

Prod. No. 5630...\$3.25

Power Tower

A heavy duty plastic tripod launcher with authentic detailing. Newly redesigned for lower Center of Gravity and more stability. Universal design lets you launch all sizes and types of rockets from minis to large cluster rockets and Magnum D engines. Features removable legs, tiltable launch rod, blast deflector, 2 piece 1/8" x 36" launch rod and adjustable pivot to accept 3/16" rod. Assembles in minutes.

Ship Wt. 1 lb. 8 oz.

Prod. No. 5601...\$9.50



Powr-Pad

Powr-Pad gives you everything you need for launching almost any rocket. Designed to attach firmly to any standard 6 volt lantern battery (not included). It includes tilt, steel blast deflector, handy carrying handle.

1/8" x 36" 2 piece launch rod, plus launch controller and associated wiring. Launch support platform is made of tough heat-resistant plastic. Pre-assembled and soldered wiring harness makes for fast assembly and reliability you can count on.

Ship Wt. 2 lbs.

Prod. No. 5609...\$15.95



Powr-Control is the perfect controller for the Power Tower launcher or can be used with any launch stand. Contains 16 feet of igniter line and 5 feet of heavy duty jumper cable with large color-coded battery clips. Controller contains recessed launch button, continuity check light and safety key. Fly cluster powered rockets with this one!

Ship Wt. 12 oz.

Prod. No. 5623...\$9.95

Powr- Control



VIKING 12 PACK

THE MODEL ROCKET PROJECT DESIGNED FOR YOUTH GROUPS AND SCHOOLS

The Viking 12 Pack is a low-cost rocketry project designed for groups and schools. The Viking rocket is easy-to-build and can be assembled in a single session. The Viking 12 Pack contains parts for Viking 12 rockets, assembly instructions and the Viking Leader's Guide. The Guide is a brief but comprehensive explanation of model rocketry; it explains how to run building and flying sessions, 3 fun-flying contests and how to cut costs in obtaining a launch system. Buying the Viking 12 Pack costs even less than buying 12 individual kits. Engines are not included. See A8-5 Flight Pack below.

Ship Wt. 1 lb 12 oz.

Prod. No. 5441...\$22.95

Photo Credit - NASA

FIREBIRD

Flying Model Rocketry Starter Kit



Prod. No. 5212

\$18.95



SKILL LEVEL 1

Kit Includes:

FIREBIRD model rocket kit with dramatic 2-color decal, plastic nose cone, quick-release engine mount and parachute recovery.

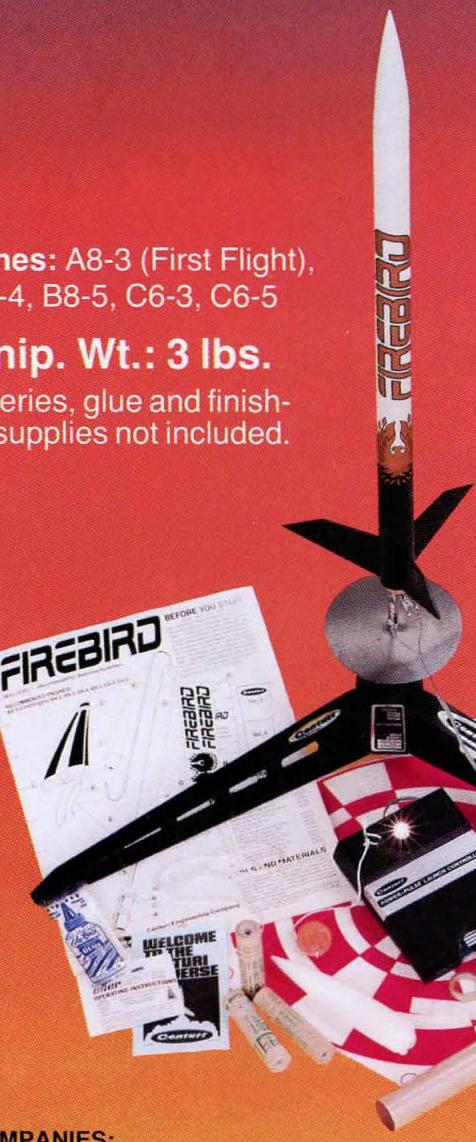
Power Tower launch pad is newly redesigned for increased stability and features tilt-adjustment for wind direction. Features 36" long x 1/8" diameter launch rod, blast deflector plate, launch rod safety cap and rocket positioning spring.

**This Ideal Starter Kit
Includes All The
Essentials For
Your First Lift-Off.**

Engines: A8-3 (First Flight),
B6-4, B8-5, C6-3, C6-5

Ship. Wt.: 3 lbs.

Batteries, glue and finishing supplies not included.



**Power Pulse™
Launch Controller** is the newest technology in model rocketry launching systems. Operates on a single 6-volt Polaroid® Polar-Pulse™ P-100 battery (not included). Features safety key, arming light, launch button, 15 feet of launch cable and pre-soldered micro-clips.

Flight Pak includes three NAR safety certified Model Rocket Engines, Parachute Recovery Wadding, and Sure-Shot II igniters.

OTHER DAMON COMPANIES:

SINCE 1922



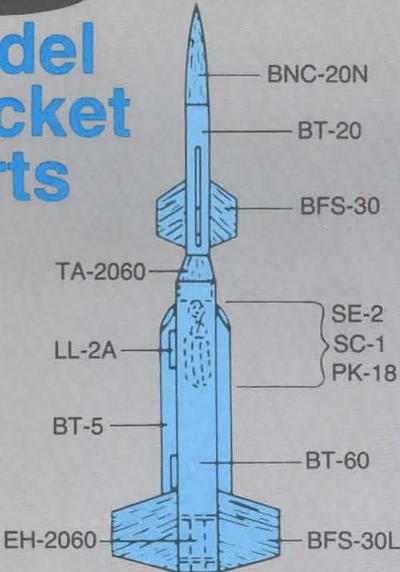
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Model Rocket Parts



ORIGINAL DESIGN (Shows how a variety of matching parts can be used together.)

Once you have built and flown several Centuri model rocket kits and have learned the basics of model rocket design, you'll want to design your own rockets, using custom model rocket parts. Centuri offers a full line of industry-standard sized parts, manufactured by Estes Industries. These parts are compatible with all Centuri Enerjet and Magnum D model rocket engines and with each other. In some cases, they may not be compatible with parts in some Centuri kits.

Nearly all the parts listed here that match have the same series description number. Those that do not feature an additional description as to where they can be used. Normally, parts listing the same series number will be interchangeable with each other. For instance, a No. 20 body tube (BT-20) would mate with a No. 20A balsa nose cone (BNC-20A), a No. 20B engine block (EB-20B) and so on. Further, a No. 2060 tube adapter (TA-2060) will adapt a BT-20 to a BT-60, and a No. 5055 centering ring (AR-5055) will center a BT-50 in a BT-55. By using balsa or paper adapters almost any combination of parts can be joined together. For ordering, be sure to use both the product number and the series description number (name).

Engine Mounts

Engine Type	Prod. No.	Description	Price	Fits	Net Wt. (Oz.)
For regular Enerjet Engines	3150	EH-2050	\$1.45	BT-50	0.1
	3151	EH-2055	\$1.45	BT-55	0.14
	3152	EH-2060	\$1.45	BT-60	0.17
D-Convertible Mount from D Bird to Regular Engine	3154	EM-2050	\$1.50	BT-50	0.19

Engine Blocks

Prod. No.	Description	Price 3 for	Outside Dia.	Inside Dia.	Length	Fits	Weight in Oz.
3131	EB-20A	\$1.15	.708"	.65"	1/4"	BT-20	.009

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- FREE Catalog
- Special CAT membership card
- Iron-on shirt decals
- Centuri Club Guide

Regular Membership (#5460) \$2.00

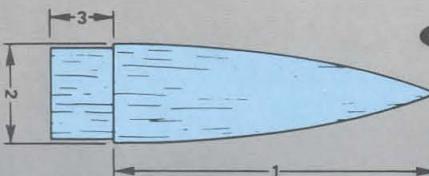
Send in this coupon with the enclosed order form. We'll send you the CAT membership for only \$1.50. #6803

Expires 12-31-83

Nose Cones

Nose cone dimensions listed in columns 1, 2, and 3.

In "Description" column BNC stand for balsa nose cone and PNC for plastic nose cone.



Shape	No.	Prod. No.	Description	Price Each	Dimensions			Average Weight
					1	2	3	
BT-5	1	8002	BNC-5V	\$1.30	3/4"	0.541"	1/4"	0.013 oz.
	2	8000	BNC-5E	\$1.30	1-3/8"	0.541"	1/4"	0.020 oz.
	3	8001	BNC-5S	\$1.30	1-1/2"	0.541"	1/4"	0.016 oz.
	4	8003	BNC-5W	\$1.50	2-7/8"	0.541"	1/4"	0.039 oz.
BT-20	5	8004	BNC-20A	\$1.20	13/16"	0.736"	1/4"	0.03 oz.
	6	8005	BNC-20B	\$1.40	1-11/16"	0.736"	5/16"	0.05 oz.
	7	8007	BNC-20R	\$1.50	2-3/4"	0.736"	3/8"	0.07 oz.
	8	71032	PNC-20N	\$1.60	2-3/4"	0.736"	1/2"	0.08 oz.
BT-50	9	8008	BNC-50J	\$1.50	1-3/8"	0.976"	1/2"	0.08 oz.
	10	8009	BNC-50K	\$1.65	2-3/4"	0.976"	1/2"	0.13 oz.
	10	71028	PNC-50KA	\$1.40	2-3/4"	0.976"	1/2"	0.13 oz.
	11	8010	BNC-50X	\$1.75	3-1/4"	0.976"	1/2"	0.15 oz.
BT-55	12	8011	BNC-50Y	\$2.00	4-3/8"	0.976"	3/8"	0.16 oz.
	12	71009	PNC-50Y	\$1.80	4-3/8"	0.976"	3/8"	0.16 oz.
	13	8012	BNC-55AA	\$1.90	3-1/8"	1.325"	1/2"	0.15 oz.
	14	8014	BNC-55F	\$2.20	3-7/8"	1.325"	1/2"	0.19 oz.
BT-60	15	71070	PNC-55AC	\$2.30	5-3/8"	1.325"	3/8"	0.32 oz.
	16	71075	PNC-55AO	\$2.35	5"	1.325"	3/4"	0.43 oz.
	17	71020	PNC-60MS	\$2.00	3-1/8"	1.637"	5/8"	0.39 oz.
	18	8021	PNC-60AH	\$3.20	6-5/8"	1.637"	7/8"	1.0 oz.
BT-70	19	8019	BNC-70AJ	\$3.55	4-1/4"	2.217"	1"	0.85 oz.

Body Tubes

Prod. No.	Description	Price Each	Length	Inside Diameter	Outside Diameter	Wall Thickness	Weight in Oz.
Spiral-Wound Paper Tube, for nose sections and strap-on payloads.							
3070	BT-5	\$1.30	18"	0.515"	0.541"	0.013"	.219
Spiral-Wound Paper Tube, for competition and sport models.							
3072	BT-20	\$1.50	18"	0.710"	0.736"	0.013"	.288
Spiral-Wound Paper Tube, for sport and high performance payload models.							
3073	BT-50	\$1.50	18"	0.950"	0.976"	0.013"	.378
Spiral-Wound Paper Tube, for sport and demonstration models.							
3074	BT-55	\$1.75	18"	1.283"	1.325"	0.021"	.672
Spiral-Wound Paper Tube, for sport and demonstration models.							
3075	BT-60	\$1.85	18"	1.595"	1.637"	0.021"	.960
Spiral-Wound Paper Tube, for monster models and tail rings.							
3076	BT-70	\$2.30	17.5"	2.175"	2.217"	0.021"	1.300
Spiral-Wound Paper Tube, for giant-scale models.							
30438	BT-101	\$3.05	16.5"	3.896"	3.938"	0.021"	1.974

Nose Blocks

Prod. No.	Description	Price Each	Outside Diameter	Length	Fits	Weight (in Oz.)
70152	NB-20	\$1.05	0.710"	3/4"	BT-20	.014
70158	NB-50	\$1.15	0.950"	1"	BT-50	.040
70162	NB-55	\$1.15	1.283"	1-1/4"	BT-55	.115
70164	NB-60	\$1.30	1.595"	1-1/2"	BT-60	.190

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- CAT Decal sheet
- CAT Wall certificate
- CAT Field Box Sticker

Regular Membership (#5460) \$2.00

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Worth \$2.50

Toward your next order over \$17.50 or can be redeemed for one FREE Astro-1 Worth \$7.00



On your next order over \$17.50 be sure to include this coupon with your order form. Limit-one Coupon per order.

Check one box:

- My order is over \$17.50, please take \$2.50 off my total order #6801
- My order is over \$17.50, please send me a "FREE" Astro-1 rocket kit #6802

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Fin Stock

Prod. No.	Description	Price	Dimensions (In Inches)	Weight in Oz.	Major Use
3164	BFS-20	3 for \$1.35	1/16x3x9	.130	High Performance
3166	BFS-20L	3 for \$1.55	1/16x3x12	.173	High Performance
3168	BFS-30	3 for \$1.40	3/32x3x9	.150	Sport Models
3170	BFS-30L	3 for \$1.60	3/32x3x12	.200	Sport Models
3172	BFS-40	3 for \$1.45	1/8x3x9	.200	Cluster Rockets
3174	BFS-40L	3 for \$1.60	1/8x3x12	.265	Glider Wings

Stage Couplers

Prod. No.	Description	Price Each	Outside Diameter	Inside Diameter	Length	Fits	Average Weight
3050	JT-5C	\$.90	0.513"	0.455"	3/4"	BT-5	.020 oz.
3051	JT-20C	\$.90	0.708"	0.650"	3/4"	BT-20	.027 oz.
3052	JT-50C	\$.90	0.949"	0.920"	1"	BT-50	.051 oz.
3053	JT-55C	\$.90	1.28"	1.25"	1.3"	BT-55	.088 oz.
3054	JT-60C	\$.90	1.59"	1.55"	1-1/2"	BT-60	.124 oz.
3055	JT-70A	\$1.30	2.175"	2.115"	1-1/4"	BT-70	.140 oz.



Construction Supplies

Paper Adapters

Rings RA-2055: 10 rings for centering and mounting BT-20 in BT-55.

No. 3111 10 for \$1.35

Rings RA-2060: 10 rings for centering and mounting BT-20 in BT-60.

No. 3113 10 for \$1.40

Multi-Purpose Set: Includes a total of 20 rings for positioning BT-5 in BT-20; BT-5, BT-20, BT-30 in BT-50; and BT-5, BT-20 and BT-50 in BT-60. Also three universal tapered shrouds and instructions.

No. 8030 \$1.50

RA-2050 RINGS: 20 rings for centering and mounting BT-20 in BT-50.

No. 3110 20 for \$1.30

Shock Cord: Specify width when ordering.

1/8" wide. Net Wt. 0.039 oz.

Prod. NO. 2276 \$.75

1/4" wide. Net Wt. 0.078 oz.

Prod. No. 2277 \$.85

Also 36" long for greater stretch on those larger birds. 1/8" wide.

Prod. No. 85744 \$.90

Launch Lugs: Super-strength laminated launch lugs feature mylar plastic core for durability, paper outer layer for easy gluing. Inside diameter 5/32" fits 1/8" launch rod.

1-1/4" long.

No. 2321 12 for \$1.45

2-3/8" long

No. 2322 10 for \$1.60

Maxi-Rod Launch Lug: 2" long, fits 3/16" diameter launch rod.

No. 2328 4 for \$1.30

Dowels: Extra strong, lightweight seasoned maple dowels.

1/8" x 18"

No. 32056 8 for \$1.15

1/12" x 12"

No. 32058 8 for \$1.15

Screw Eyes: Specify size when ordering. 6 each.

Large Eye: 1" long, .04 oz.

Prod. No. 2280 6 for \$1.20

Small Eye: 3/4" long, .03 oz.

Prod. No. 2279 6 for \$1.10

Extra Small Eye: 5/8" long, .01 oz.

Prod. No. 2281 6 for \$1.00

Engine Holders: Flat spring steel design gives easy installation and low drag. Recommended for sport and demonstration models. For Regular and "D" engines.

No. 3140 3 for \$1.70

Centering Rings AR-5055: For centering a BT-50 body tube within a BT-55. Extra strong for "D" engine mounts. Weight 0.062 oz. each.

No. 3102 4 for \$1.40

AR-2050 Centering Rings: For centering a BT-20 body tube within a BT-50. Greater strength makes for use with high thrust engines. Weight per pair .285 oz.

No. 3100 10 for \$1.70

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Prod. No. 81916 \$2.00

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1. What types of scale models would you like to see Centuri produce? _____

a friend film gift
 school magazine ad hobby shop
 rocket club saw a launch department store
 article comic book
 TV store
 other

2. Do you prefer Large or Small size models?

3. Do you think Centuri kits are generally Easy, Average or Difficult to assemble considering their recommended skill level?

4. Are Centuri kit instructions easy to follow? Yes No

5. Would you prefer more plastic parts for simpler assembly and better detail? Yes No

6. What Skill Level of kits do you prefer to build? 1 2 3 4 5

7. My three favorite types of model rockets are Single Stage Scale Model Boost Glider

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9. My favorite type of scale model is:

Military Scale NASA Scale Sounding Scale

10. What product other than model rockets would you like to see Centuri produce:

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